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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/829,033	04/21/2004	Rick J. Tresnak	P06654US00	7437	
22885	7590 02/08/2006		EXAMINER		
MCKEE, VOORHEES & SEASE, P.L.C.			BUNIN, AN	BUNIN, ANDREW M	
801 GRAND AVENUE SUITE 3200 DES MOINES, IA 50309-2721			ART UNIT	PAPER NUMBER	
			3743		

DATE MAILED: 02/08/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary						
		10/829,033	TRESNAK ET AL.			
		Examiner	Art Unit			
		Andrew M. Bunin	3743			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
WHICHEVER IS - Extensions of time m after SIX (6) MONTH - If NO period for reply - Failure to reply within Any reply received by	STATUTORY PERIOD FOR REPLY LONGER, FROM THE MAILING DA any be available under the provisions of 37 CFR 1.13 IS from the mailing date of this communication. It is specified above, the maximum statutory period we the set or extended period for reply will, by statute, by the Office later than three months after the mailing indjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICA 6(a). In no event, however, may a reply ill apply and will expire SIX (6) MONTHS cause the application to become ABANI	TION. be timely filed from the mailing date of this communication. DONED (35 U.S.C. § 133).			
Status						
1)⊠ Responsiv	e to communication(s) filed on 27 Ju	<u>ly 2005</u> .				
2a) ☐ This action	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in a	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Clair	ns					
4) Claim(s) <u>1-4,7-13,15,17,19 and 20</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) _	is/are allowed.		•			
6)⊠ Claim(s) <u>1</u>	- <u>4,7-13,15,17,19 and 20</u> is/are reject	ed.	·			
• • • • • • •	is/are objected to.					
8) Claim(s) _	are subject to restriction and/or	election requirement.				
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>21 April 2004</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
. Applicant m	ay not request that any objection to the o	drawing(s) be held in abeyance.	See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.	.S.C. § 119		·			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
·	sure Statement(s) (PTO-1449 or PTO/SB/08)		mal Patent Application (PTO-152)			

DETAILED ACTION

Terminal Disclaimer

The terminal disclaimer filed on 10/27/05 disclaiming the terminal portion of any patent granted on this application, which would extend beyond the expiration date of any patent granted on 10/981,036 has been reviewed and is accepted. The terminal disclaimer has been recorded. It should be noted that applicant is <u>not</u> required to pay another disclaimer fee as set forth in 37 CFR 1.20(d) when submitting a replacement or supplemental terminal disclaimer.

Response to Arguments

Applicant's arguments, see page 11, paragraph C, filed 7/27/05, with respect to the rejection(s) of claim(s) 17, 19, and 20 under 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Holmgreen et al. (US 5024220).

As for claims 11 and 17, Babb et al. and Six teach their respective devices as capable of being rapidly assembled as shown in the Figures. Therefore, it would have been obvious to a person having ordinary skill in the art at the time of the invention to make the endotracheal tube, adaptor, carbon dioxide indicator and stylet pre-assembled and packaged as an assembly in order to be immediately ready for use. The prior art has shown that it has been well known in the art to package pre-assembled medical appliances as taught by Linder (US 4248236). In addition, Holmgreen et al. teach a

connector comprising a self-contained, integrated unit or kit that includes a stylet, collar, and connector. These elements are disclosed as being pre-assembled, sterilized, and prepackaged prior to use (column 5, lines 1-14). Therefore, it would have been obvious to a person having ordinary skill in the art at the time of the invention to modify the device of Babb et al. to make it pre-assembled and prepackaged in order to enhance the efficiency of application.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4, 7, 9, and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Babb et al. (US 5197464) in view of Gallagher (US 3373735). Babb et al. disclose an adapter comprising a first tube 44 for attached to an endotracheal tube 26 and a second tube 48 capable of being attached to a bag-valve mask at 36. The adaptor includes a carbon dioxide indicator 62 in gaseous communication with the endotracheal tube 26, and isolated from the atmosphere. The carbon dioxide indicator 62 of Babb et al. still broadly reads as being mounted on an exterior portion 70 of the second tube 48. Exterior is defined as outer or external in relation to another feature (dictionary.com). Side 70 could still read as being an outer side of the second tube, therefore, the carbon dioxide indicator would be mounted on an exterior portion of a

second tube. In addition, Gallagher teaches a medical-surgical tube including a paper indicator ring 22 surrounding perforations 28". The device of Gallagher also includes an outer wall 24" to isolate the indicator from the atmosphere. Gallagher teaches an indicator being mounted on an exterior portion of a tube. Therefore, it would have been obvious to a person having ordinary skill in the art at the time of the invention to modify Babb et al. to mount a carbon dioxide indicator on an exterior portion of a second tube as well as include perforations around the tube in order to evenly indicate the levels of carbon dioxide around the entire tubular structure. Lastly, it is noted that applicant's specification does not set forth this feature, as unexpectedly providing any new result or unexpectedly solving any new problem in the art over the prior art. Accordingly, the examiner considers the selection of such to be a mere obvious matter of design choice and as such does not patently distinguish the claim over the prior art, barring a convincing showing of evidence to the contrary.

Babb et al. continues to disclose the adapter's first tube 44 having a tapered insertion end as shown in Figures 1 and 2. The adapter disclosed has first 44 and second 48 tubes axially aligned. In addition, the second tube 48 has an orifice 60 and the carbon dioxide indicator 62 covers the orifice and a further includes a casing 50 isolating the carbon dioxide indicator 62 from the atmosphere. As shown in Figures 2 and 3, the solution filled cavity 62 is cylindrical; therefore, the indicator covers some of the orifice 60. Babb et al. discloses the orifice 60 as being spaced around the second tube 48 and the carbon dioxide indicator 62 surrounds the second tube 48 over the orifice 60 as shown in Figure 3.

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Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Babb et al. in view of Gallagher and further in view of Williams (US 4691701). The carbon dioxide indicator 62 includes a ring of chemically treated colorimetric indicator paper 56. The dictionary defines a membrane as "a thin, pliable layer of tissue covering surfaces or separating or connecting regions...a piece of parchment." Based on this definition, the membrane 56 that is chemically treated can be considered a colorimetric indicator paper 56. In addition, Gallagher teaches an indicator 22 as being an absorbent paper ring (column 2, lines 13-25). Although Gallagher doesn't explicitly teach the indicator 22 as being used for detecting carbon dioxide, Williams teaches an indicator that uses a similar litmus paper type material for detecting carbon dioxide. Therefore, it would have been obvious to a person having ordinary skill in the art at the time of the invention to modify Babb et al. to replace the indicator with the chemically treated indicator paper of Gallagher or Williams in order to detect carbon dioxide without the possibility of chemical leakage.

As for claims 9 and 10, Babb et al. also disclose the casing 50 as a clear ring. Casing 50 is a section of the housing 42 that is "molded or otherwise fabricated from a clear synthetic polymer such as polyethylene" (column 13, lines 59-61). In addition, the clear ring 50 has a C-shaped cross section defining a channel for receiving the carbon dioxide indicator 62. The cross section of a cylinder such as clear ring 50 has a C-shaped cross section as shown in Figure 2.

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Claims 11-13, 15, are rejected under 35 U.S.C. 103(a) as being unpatentable over Babb et al. in view of Six (US 5058577) and further in view of Holmgreen et al. (US 5024220) and/or Linder (US 4248236). Babb et al. disclose an endotracheal tube 26, an adapter 34 having a first tube 44 attached to the endotracheal tube 26, and a second tube 48 capable of being attached to a bag-valve mask at 36 but does not disclose a stylet placed within the endotracheal tube and the adapter. In addition, Babb et al. doesn't disclose the stylet with a handle that interfaces with the second tube to form a seal. However, Six teaches a "stylet is slidably received within an endotracheal intubation tube" (column 2, lines 18). Six also teaches a stylet 10 with a handle 34 that interfaces with a tube to form a seal as shown in Figures 1 and 2. Therefore, it would have been obvious at the time of the invention to a person having ordinary skill in the art to include the stylet taught by Six with Babb et al. adapter in order to facilitate insertion of the intubation tube into the airway of a patient. Babb et al. continue to teach a carbon dioxide indicator 62 on the adapter. Babb et al. and Six teach their respective devices as capable of being rapidly assembled as shown in the Figures. Therefore, it would have been obvious to a person having ordinary skill in the art at the time of the invention to make the endotracheal tube, adaptor, carbon dioxide indicator and stylet preassembled and packaged as an assembly in order to be immediately ready for use. The prior art has shown that it has been well known in the art to package preassembled medical appliances as taught by Linder (abstract) and Holmgreen et al. (column 5, lines 1-14).

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As for claim 15, Babb et al. disclose an orifice 60 in the perimeter of the second tube 48 with the carbon dioxide indicator 62 covering the orifice and a casing 50 isolating the carbon dioxide indicator 62 from the atmosphere.

Claims 17 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Babb et al. in view of Six (US 5058577) and further in view of Holmgreen et al. (US 5024220). The method steps would have been obvious by the use of the device outlined in claims 11-13. Babb et al. disclose an adapter 34 attached to an endotracheal tube 26 with a carbon dioxide indicator 62. Babb et al. doesn't disclose a bag-valve mask and a stylet within an endotracheal tube and adapter. However, Babb et al. discloses attachment of detector 34 to a ventilator hose 36 and states that "air present from mask ventilation prior to intubation" (column 4, lines 39-40). In addition, applicant has noted that bag-valve mask 48 attached to indicator 102 is considered prior art. Six teaches a "stylet is slidably received within an endotracheal intubation tube" (column 2, lines 18). Six also teaches a stylet 10 with a handle 34 that interfaces with a tube to form a seal as shown in Figures 1 and 2. Therefore, it would have been obvious to a person having ordinary skill in the art at the time of the invention to combine a bagvalve mask in the prior art and include the stylet taught by Six with Babb et al. adapter to ventilate a patient and facilitate the insertion of an intubation tube into the airway of a patient.

Holmgreen et al. disclose a similar device that includes an endotracheal tube connector to easily fit within a tracheal tube. Holmgreen et al. continue to teach the

connector comprising a self-contained, integrated unit or kit that includes a stylet, collar, and connector. These elements are disclosed as being pre-assembled, sterilized, and prepackaged prior to use (column 5, lines 1-14). Therefore, it would have been obvious to a person having ordinary skill in the art at the time of the invention to modify the device of Babb et al. to make it pre-assembled and prepackaged in order to enhance the efficiency of application.

Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Babb et al., Six, and Holmgreen et al. in view of Kaigler et al. (US 5546934). Babb et al., Six, and Holgreen et al. teach everything except the step engaging the bag-valve mask for one ventilation cycle. However, this is considered obvious in the art as well as Kaigler et al. discuss how a bag-valve mask "would then remain in its restored condition until the next bag squeezing operation and such cycle would be repeated as necessary" (column 1, lines 36-38). Therefore, Kaigler et al. teaches that it was well known in the art that there is a step engaging the bag-valve mask for one ventilation cycle.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: US 5582165 (column 2, lines 55-57) and US 2005/0016543 (page1, paragraphs 8 and 9)

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew M. Bunin whose telephone number is (571)272-4801. The examiner can normally be reached on Monday - Friday, 8 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Bennett can be reached on (571)272-4791. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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